App. F. IX-4

Previous References 1924-5 (Genl

File No. 133 24

Serial Nos. 1-9

Preserve

Later References

W. 47-49 (1-7)

(69)

General and Revenue Secretariat.

Serial Nos.

Part B for Judges

SUBJECT

Judges finding in connection with the grant of prospecting licenses in the Mole

OFFICE OF THE FIRST
MEMBER OF COUNCIL

NOTE

Dated.... 24th.April.....1925

1) The Director of Geology may be asked to report whether any reports have been received from Messrs Sen and Venkata-ramaiya in respect of the examination of the manganese and chrome blocks by them since they were deputed for this work sometime back, and if so, to send their reports for the perusal of Government He may also be asked to obtain from them fortnightly reports in future and submit them with his remarks as they are received for the perusal of Government.

24/4/25

Revenue Secretary,)
with compliments.)

WP
24/4

~~SUBJECT.~~

Ref File No 133 of 1924

Serial No. Subd with draft

2574/25

To

The Director of Geol
Mon. C. 7280 of 29/4.

Requests his observations as to reasons if any received from our officers
respecting for the examination of
the manganese & chrome block
& nickel deposits further light
thereon may be obtained &
how with his remarks

GEN. & REV. SECRETARIAT
30 APR 1925
INDUSTRIES & COMMERCE
BRANCH.

eneral and Revenue Secretariat.

File No.

of 19

Serial No.

85441

MEMO OF INTERVIEW WITH THE DEWAN.

Friday.....192

Name of Interviewer—

Representation in brief—

4) Report in work done (work expected expected) Respectfully

5256
5441

G.R.S. III-2]

Geol File No. 133 of 1924

No.

Ref: - Previous minute (Para 4 of note) in page 3.

5) Reports have been called for from the Dir. of Geol. as ordered by the first member in his minute dt 24/25 (para 1 of note). No. 9.C.7280 dt 29.6.25

24/5/25

6) Put DO. minor to Dir

7) Draft d/o put up.

24/5/25

8) Issue

5742 (5

General and Revenue Secretariat. | Ecl 2 File No. 133 of 1924

Serial No

3 From the Dir of Ecl
No. 1854 dt 15-5-25
forwards copy of letter dt 12-5-25
from Ass. Dir. Ecl, furnishing
the report of results of analysis
of the 12 samples of Cheroots
collected by him from the
Kalangadi area

a) The previous papers were sent
to the 1st Member on 9.5.25
(D. No. 5596)
20/5/25

b) The report of Mr A N Sam shows
that he took up the duty of the report
examiner & [illegible] Cheroots
in the outstanding D[emand] Rolls are found
[illegible] of low grade, not very [illegible]
[illegible] profitable for Exploitation

c) This may be submitted for Govt
perusal

9/7/25

Geol File No. 133

Serial No.

4 From the Dir of Geol
No. 1943 of 30.5.26
forwards copy of report
on the work done by Asst. Supt.
on Attanakallu Chromite
block in the Mysore Dist &
12) the previous reports sent
from the Dir. have been subd
to the first number with Dy. Nos
5596 & 5942.

Dy 1/6/25 13) To Annual
Rpt Dir
14/6

1/6
3/6 WDP 4/6

5/6
4.6

15/6 WDP 16/6

5 From the Dir. of Geol
No. 1979 of 8.6.25
forwards copy of report on the
working done by Asst. B. N. Venkata
ramanayya Asst Geologist,
during the fortnight ended
31.5.25
14) Asst. Venkataramanayya while
Subj. his preliminary report states
that a detailed report will be
Subd. on completion of the work.

General and Revenue Secretariat.

Gen'l File No 133

Seria. No

157 for orders

20 17/6/25 16 Fa Annual

Rev dly

1 Sept

506 26.6 17 Sec a

This may a

Sa Secretary for Darwan Pravara

dy 9/7

W 113/0

26/0

W 115/0

Memo no 480

REPLY.

(To be written on this margin.)

Office of the Dewan of Mysore.

NOTE.

Dated 21st June 1925

18) The Dewan will be obliged to have the latest report of Mr. A.M. Sen's work ~~and~~ to see how they have been disposed of, if any have been received.

By order,

Private Secretary to the Dewan.

The Revenue Secretary to Government,
with compliments.

Ans. 22

19) Papers on record

26303

20) The previous file 28/25 in the subject is before the Member. The latest report of Mr Sen's work in Plant Culture

Rec'd 24/6/25

Rec'd 25/6

22) Please let us have papers from the Govt. Office and thereafter

25/6

Routine Notes.

[To be used only for notes, requisitions, etc., not intended for permanent record.]

---

28) Please see the Rev Secy's note overleaf and put up the previous reports req^d. to.

26.6.25

P. A. to the First Member

512/26.6 visits compliments.

---

29) The previous reports (three) are put up herewith for submission to the Dewan.

9/7

To the Supdt. Hde Branch with Compliments

---

visits. visits Ref. 133-24 contd. the reports of Mr Sen asked for by the Dewan & the orders of the First Member dt 9.7.25

26) The reports of Mr A.M. Sen to the First Mr's orders thereon are placed in the linked file by Secy (Reps Dewan minute aban) Subd for perusal

9/7

Dewan)

R. S. III-2a]

6303

DEWAN'S MINUTE

General and Revenue Secretariat. Eco. File No. 133 1926

Date of submission	Date of Return	Date of issue of orders in the Secretariat	Remarks

27) The papers connected with this subject are not all placed in the file. The order deputing Mr. Sen to make certain investi gations relating to Chrome and Manganate deposits may be put up. I believe certain definite areas were proposed to be examined by him with a view to come to some decision re. the question of the Govt taking up exploitation of these minerals. I shall be obliged if the Member will now kindly formulate definite proposals with ref. to all reserve minerals, specially with ref. to the recent order giving yearly licenses up to 3 years on the 25 p.c. profit basis fixed for Govt. I personally think that this policy requires revision and as more than one year has elapsed, since its introduction we must either revert to the ordy. rules for working or enhance the royalties, closing up the licenses current on the expiry of their present contracted periods.

Ecl 87-23 Hons J

337 14.7.25 15/7

10.7

28) In [illegible] I am advised that we have a dozen chrome blocks and equal no. of manganese blocks. Should be selected by the Dist for investigation by Mr. Sen. Which were the blocks so selected by the Dist? Have reports of investigations been received?

WD 2314—GPB—2000—28-6-25

General and Revenue Secretariat.

File No. 133 of 1924

Serial No

File No. 133 of 1924

General and Revenue Secretariat.

Serial No.

[illegible]

[illegible] Telephoned to 1671

Serial No

6 Forwarded to Dir. of Geol
No. 2037 of 18.6.25

forwarding a copy of the report on work done by Asst Supt on the lead Chromite blocks at Solapur & Ayirkallu, in the Salem District.

31) The previous reports have been dealt separately in connection with Vertical communications

32) Please send up the lists thereof. Please also write up the previous reports

20
19.6.25

VB
19/6

33) It would appear from the report that new leases were the chromite blocks Examined by Mr Dey or Mr Venkatramaya Contain huge quantities of which can be advantageously exploited by self or which are being developed by private companies on the basis of Steering Committee

34) The Director may be asked to submit a consolidated report of the work done by Messrs Dey & Venkatramaya

No

up to the end of June last in this report whether they may be continued on this area or withdrawn from the Employers on the work

3) This may be submitted for Darwar formal

Dewan

36) Subd for formal. 9/7/25

WCP 9/7

7 From the Dir. of Ind
no. 156 of 15.7.25

Forwards a copy of the report on work done by Rao B. Venkata ramaiya, on manganese blocks in Chickmagalur Kadur Taluk

37) To formal

Rev Sec 15/7

WCP 15/7

Ag 17.7

8 no. 9. C. 665 of 31.7.25
To the Dir. Ind

Call for a formal ex before 5.8.25 re the details of blocks selected for examination, how the arrangement secured by Govt. re participation of prospectors by Govt. known and whether the policy requires any changes.

General and Revenue Secretariat.

Gen File No. 133 of 1925

Serial No

389 In G.O. No.I.Cf.5063-4/Geol.- 87-23-22 dated 27t Jany 1925 Government deputed Messrs. A.M.Sen and B Venkataramaiya of the Geol. Dept. to collect full details about the reserved manganese and chrome bloc available for disposal, with a view to the proper exploitation of these minerals by Govt.

The rules regarding the grant 391 of prospecting licenses for manganese and chrome slightly relaxed in G.O. dated 4th Octr. 1924 and 26 Febry. 1924 respectively; the chief feature of the n rules being that in addition to the royalty and othe fees payable under the rules, the licensee was to pay not less than 25 per cent of the net profits, which may be derived by him from the business.

3.40) From the fortnightly progress reports subritte by the Officers deputed on mineral survey (please se file placed below) it is seen that four chrome block and three manganese blocks have been examined by the The results of their examination are indicated below

Chrome.

Name of block.	Locality.	Results of examination.
	rga Taluk.	The chrome out crops occur in tw different parallel lines. The ore is found in pockets or lens and is erratically and irregula ly distributed over the area. The ore is of low grade, (ie. les than 48%). About 24,000 tons of ore are expected from the block if carefully worked out. The are is near to the railway line but situated on high hilly grounds
		It is reported that no trace of chrome could be found in the locality in spite of careful ex mination. It is suggested that area had been applied for for chrome perhaps on account of proximity to the Tata's Minin

WD 2119—G.P.B—10.000—27-4-25

Name of block	Locality	Serial No.	Results of examination.
Ayarahalli	Mysore Taluk.		There was no chrome noticed in this block either. and no exacavations were made. Three bits of land near these two blocks were examined with practically the same results. ~~Both these blocks require very careful working and sorting and as such this block is said to be not at all promising.~~
4. Uttanahalli.	do		The ores in this block can be obtained in the form of - pebbles collected on the surface ~~with~~ of low grade or associated with ultra-basic rocks or in the form of thin veins of chromite. About 11,300 tons are expected to be obtained from this block if carefully worked out. The low grade ore is 25 per cent in chrome contents and the two other varieties are not expected to be more than 40%. Deep prospecting may perhaps, it is reported, reveal the presence of good chrome ore in some of the dunite areas. Anyhow there is no good evidence on the surface, as regards the presence of chrome ore.
	Manganese		
1. Keshapur.	Holalkere Taluk		This block has been worked out by the previous licensees to some extent. About 5000 tons of low grade manganese i.e. below 44% are estimated as likely to be available from this block. It is close to the railway line.
2. Hanumankatte (Contiguous to the Keshapur block to the south)	do		The area is poorer than the Keshapur block. About 6000 tons of low grade ore containing more than 40% are expected to be available here. Both these blocks require very careful working and sorting and as such this block is said to be not at all promising.
3. Honnebagi. (Northern block)	Chickmayakanhalli Taluk.		The manganese ore occurs mostly in patches and total quantity estimated to be available from this area is 5300 tons. The ore is mostly low grade ranging from 35% to 44%

North—South Sheet

Serial No		
Honnebagi	Chiknayakanhalli Taluk (Southern block)	The manganese-bearing spots are few and do not occur together. If all these patches are completely worked out, it is estimated that 1000 tons of low grade ore (not more than 44%) can be got from this area The transport difficulties and costly working charges ~~became~~ on account of the hilly nature of the locality and the very limited quantity of ore that may be available from this block, are adverse factors.

41) 4. Of these blocks (manganese and chrome) the northern and southern portions of the Honnebagi block have been examined by Mr Venkataramaiya and all the others by Mr. A.M. Sen.

42) 5. In para 3 of G O. dated 27th Jany. 1925 the Byrapur-Hullenahalli chrome block was specifically mentioned as one of the blocks ~~to~~ should be selected for examination From the file (Geol.125-24) placed below it is seen that Mr. A.M. Sen apprehended difficulty in entering on the grounds of Mr. Manickavelu Mudaliar and Messrs. Oakley Bowden & Co who held surface rights over considerable portions of this area:- Especially Mr. Manickavelu Mudaliar objected to allow Mr. Sen to carry on his work of investigation in the lands included in this holding. The Director of Geology recommended the acquisition of surface rights to facilitate the investigation but it was not considered desirable by Govt. unless ~~the~~ Govt. first decided to work this block themselves. (please see flag M.)

43) 6. Under the new rules regarding the grant of prospecting licenses for manganese and chrome referred to in para 2 of this note, 8 licenses have been gran

WD 2119—G.P.B.—10.000—27-4-25

Serial No.

for chrome blocks and four manganese blocks.

The chrome license holders are:-

(1) Mr. Schomeburg. (2) Mr. J. Burr
(3) " Adevappa (4) " B. Sripada Rao.
and (5) Mr. C. B. Desai.

Date from which the licenses run.
1) 16-4-24
2) 25-11-24
3) 1-1-25 (one of the 2 licenses)
4) 24-3-25
6) Cancelled

1) 7 of these, the license of Mr. C. B. Desai has been cancelled for default in payment of deposit and fee. 1664 tons of chrome have been mined Rs.900/- in the shape of royalty paid ~~The~~

The manganese licenses/holders are

(1) Mr. Tressler. (2) Mr. Singri Nanjappa
and (3) Mr. C. B. Desai.

1) No P. L. has yet been issued, but permission has been granted by the Dist. to work the mine pending the issue of the licenses.

2) 24-2-25
3) Cancelled

2 The license of Mr. Desai was cancelled for default in payment of deposit and fee. 550 tons of manganese ore were mined up to the end of June 1925 No royalty has been recovered in respect of the same 600 tons of chrome has been sold by Mr. Schomburg

.43 tons of manganese have been exported by Mr. Sringri Nanjappa. It is not known what the sale-proceeds are and the exact profits payable by them have not been determined. It is said to be awaiting the audit of their accounts.

MB
16/7/25.

46) The above note is for formal-
Whether a draft to the Dn is necessary calling for his opinion on the present policy (of profit-sharing) in regard to the grant of prospecting licenses, in for orders from the start, he has expressed himself agt it (Please see Para

6373-24
311+331-25

Geol File No. 133 of 1924

Serial No

Page 53 — D.F.N. (on file 87-23) — Off to Darwen
put up for appt a photographer —

Rev Sec

(1) The value of the information and
consideration of the three heads under
Consideration viz — 1) the powers under
the Examination Act 2) the working of the system under which
prospecting licences may
be given after 25 Dec of the Act. Prospecting

As regards the first point it is not
clear what are the Boring
selected by the Dir. Agric in
Exam-tion. What is the result of
the examination of the Pyrapion
Bore Exploration and what these powers
has to be called for. It may be pointed
out that the results of the Examination
for the Lancaster

As regards the second point it may be
pointed out that the new system
of prospecting has not worked
sufficiently long to afford materials
in the form of results to suspend

G.R.S. III-2]

331

File No. 133 of 19 24

Ser No.

Calcutta.

Duration report on the subject. The Dun is clung against the present system. If the system is to be judged on results as [illegible] which longer [illegible] is [illegible] [illegible] has the result that [illegible] in view of the above [illegible]

(4) a [illegible] [illegible] [illegible] [illegible] [illegible]

456/18

[illegible]

(49) [illegible] [illegible] [illegible]

[illegible]

(50) Information called for is noted against each name [illegible]

(51) [illegible]

(52) [illegible]

(53) [illegible]

NOTE—Contd. Sheet

REPLY

(*To be written on this margin.*)

Office of the Dewan of Mysore.

NOTE.

Dated.....22nd..July....192 5.

The file relating to the proposals for developing the Byrapur Chrome Block should be arranged and put up for my perusal, with a note as to the action taken up-to-date. I should like to know whether any investigation was made relating to this Block by Mr. Sen, and if not, why not.

440

(22)

Geol File No. 133 of 1924

58 31/ Dewan Chm'
1st Mo.)

Delay

59 22) For perusal
& opn in view to letter

(vide Dewan's order
~~para 51~~ paras 52 & 53)

60) Issue & Submit.

31/7/25

To

The Director of Geol.

No. T. 685 dt 31/7/25

Calls for the Subst of a report before the 5th Aug of 25 about the work turned out by messrs Roy Sen and Naikar Ramaiya in the selection of manganese and Chrome blocks & enquires whether the work can be continued for some time longer or it needs any change.

General and Revenue Secretariat.

Ecl File No. 133 of 1924

Serial No

Refer :- Demands Minute (Paras 5-2-53 in page 20)

(1) Reply to the refree called for in 8 (D. C. 665 of 31.7.25) is due from the Dir. of Ecl. on 5.8.25.

(2) For orders.

3/8/25 631 The Diwan has noted that the matter may be attended in Circle — (vide para 53) Rec'd 7 8/8

(4) For Herman after sending the file to the Ch. Sy 3.8 5/8

(5) 5.8 (6) 5/8

(6) Ch. Sy with Compts 7.8 7/8

Rate 9.8.25

Serial No

~~8~~ 9

From the Dir. of Geol
No C/156-24/25 26 & 10.8.26
Furnishes opinion as to how the arrangement sanctd. by Govt. for the participation of profits of the licensees (in addition to royalty) has been working since the issue of G.O. on the subject & the details of the Chrome & Manganese blocks selected by him for examination

67) Byrapur - Hullemalalli was the important block referred to in the order of 27.1.25; but the Dir for reasons explained in para 5 of the p.c.d, states that he omitted to include the same.

68) His opinion on other points has been furnished in paras 8, 9 & 10.

69) The original file on the subject is before Council.

NO 11/8/25. [signature] Rem for [signature]

NO 11/8 [illegible] 12.8

350/12.8

70) The [illegible] put up with the main file

[signature]

[signature] 13.8

NO 13/8

Geol File No. 133 of 19 24

Serial No

Refer Para 70 of Notes (Members' minute in p. 24)

71) File obtained from the Council Sects & Subord. Refer Para 70.

20
13/8/25 Finch MV

WP 13/8

449
14.8

As I have shown in another connection it may well be that the Dept may consider the question modifying the present scheme of participation of the Govt in the net profits of the Prospecting Licenses of chrome manganese blocks.

Regarding the continuance of mica Exploration Concessions in the Examination of chrome manganese blocks, considering that the Examination of the blocks made by them has not produced any ~~appreciable~~ beneficial results, I do not think it worth while to employ them on the work again

15/8

WP 17/8

Please return to the Council Section WP 12/8

7-2-1

Not Considered on 3.9.25
12.9.25
15.10.25

SUBJECT:- ~~2627~~ C 66

Future policy in connection with the grant of prospecting licenses in the State

OPINION OF THE COUNCIL.

May be
submitted CSI
number of brought
up again next January
8
12/11/25

May be submitted
CSI number at
the end of Nov
8
13/11/25

This may be submitted above
15th Jan
30/12

329/15.1 Subd. as ordered above
13/1/26

[illegible] 15/1

SUBJECT:

Future policy in connection with the grant of prospecting licenses in tne State.

OPINION OF THE COUNCII
(Draft)

(For Disposal at a Meeting)

No. C. 66

of 1925-26

GENERAL AND REVENUE SECRETARIAT.

Council Matter.

SUBJECT.

(Clause xii & xxiv of the Schedule

Future policy in connection with the grant of prospecting licenses in the State.

CIRCULATED TO THE MEMBERS OF COUNCIL.

By Order,

Offg. *Chief Secretary to Government.*

10th August 1925

Extraordinary Member of Council.

First Member of Council. (Seen)

Second Member of Council.

Extra Member of Council.

723-25

Geol File No. 133 of 19 24

Serial No

The Director's opinion about the continuance or otherwise of the system of Govt. Shaving in the profits of the mineral licenses is worked up and submitted for in the linked file submitted for orders.

Lh 27/1 RSH 27/1

(1st minutes) h 27/1 28/1

Final orders have been passed abolishing the System of Govt. Shaving in the profits of the licensees - (Vide Geol 133-27-4)

These papers may therefore be recorded

28 15/7/28. Record

24/7

Section Geol

File No. 133-24

Serial No. 1

Diary No. of letter replied to .....

No. I.C. 7280

General and Revenue Secretariat

( )

, the 192

To The Dir. of Geol

Sir

Date of issue 29/4/25

Signed by Mr V. V Chary

With reference to G.O. No. I.C. 5063-4/Geol 87-23-22 dt 27.1.26. I am directed to enquire if any reports have been received from Messrs A. M. Lee & B. Venkatachariyar in respect of the examination of the Manganese & Chrome blocks by them during their deputation & to request I am to know

List of enclosures .....

Copied by .....

Examined by .....

over

~~and that reports for the~~
~~perusal of Govt.~~

~~I am instructed to state~~
~~that in future fortnightly~~
reports may be obtained from them
~~and submitted~~ as & when received
~~to Govt~~ for the perusal
of Govt.

I have the
honour
to be
Sir
Your obed
Servt

VS

Mysore Geological Department.

Bangalore, 8th May 1925

GEN. & REV. SECRETARIAT
8 MAY 1925
INDUSTRIES & COMMERCE BRANCH.

Ques 133-24-2

Dear Sir,

As desired by Government in their order Dated. 29th April 1925, I am herewith submitting a report on the work done by Messrs. A. M. Sen and B. N. Venkataramaiya.

The report, as submitted, by Mr. Sen speaks for itself and as the matter contained therein is lacking both in academic as well as Economic interest of any value, there is no need for expressing my opinion on it at this stage.

For perusal of the Dist. Con. claiming an A and Mr. Comet The Hon. may Mr. be pleased to arrange for Mr. Jones to meet the Member in charge.

But I consider it my duty to again point out to the Government that this kind of work done by two highly paid officers of this Department is not to the credit of this Department and will cost Government unnecessarily.

The matter requires a thorough personal discussion and I shall take the earliest opportunity of doing so with the

To see the Translation of the Canarese portion of Mr. Sen's observation contained "Conclusions" on "The Keshapur Block"

He says "That if the results of analysis of the ores do not turn out to be high in manganese contents, the area may be granted to Mr. Tresslor....."

In my opinion this suggestion reflects strongly against the spirit of a scientist. Mr. Sen's sense of duty towards safeguarding the interests of Government is certainly commendable but poor Mr. Tresslor need not be robbed on that score.

Yours sincerely,

B Fagan Dass

K.V. Anantaraman Esq., B.A.,
Secretary to the Govt. of His Highness of
the Maharaja of Mysore Revenue Department

The Kalangavi Chrome area.

Situation.

This area is situated at about 8 miles as the crow flies, to the west of the Hosdurga Road Railway Station on the M & S.M. Railway and lie within the limits of the village of Jemapur in the Hosdurga Taluk.

Occurrence

The Chrome outcrops may be taken as occurring in two different parallel runs striking at about 25° West of North, and these for convenience may be grouped in two different areas, the eastern and the wester In both the areas the ore occurs in pockets or lenses, erratically and irregularly distributed in the ultra-basic rocks.

The Eastern area lies at about 2 furlongs South west of the Kalangavi hil 3088 and most of the chrome ores of this part stand out in large bouldery masses chiefly towards the south end and the outcrops may be seen for a distance of about 2 furlongs.

The western area is anout a furlong to the west of the eastern one and the outcrops may be seen distributed in irregular masses for a distance of about 3 furlongs, the large boulders appearing mostly at the northern end

In one pit in the form of a shaft, sunk just adjoining a large boulder of chrome to a depth of 13' below the surface a cross cut was driven under the chrome ore body for a distance of 9' 2", the last 1' 3" of which exposed amphibolite with serpentine and thin chrome veins, i one place the vein having a width of while the rest of the cross cut exposed gneiss with pegmatite veins and stringers and some mica schist.

In the western area, 6 pits and cuts were made, in some of which masses of hard ultrabasic rock were met with which were removed by gu powder to find out the bottom the ore bodies. The depths of these pits vary from 4 feet to 7' at the bottom of which amphibolite or serpe tine was met with

	Measurements tons	Lumpsum tons
The eastern area	8416	850
" Western	2687	1950
Total	11,103	2800

Grand total 13,903 tons or

1,400 tons (approx).

We may take into account another 10,000 tons of ore from unknown underground occurrences if these could be worked out profitably: this is onl assumed as such ore bodies cannot be definitely ascertained from the sur face observations. So in all about 24,000 tons of ore could be reasonably expected from this block if carefully worked out.

Grade.

Regarding the grade, the ore does not appear to be of high quali (i.e. 48% or over and it is doubtful if any sample would yield even 40% of Cr_2O_3 with proportionately small amount of iron and silica. samples have been taken from different places and various outcrops and they have been sent to the Laboratory for analysis, the results of whi are awaited.

THE MANGANESE BLOCKS NEAR THE CHIKJAJUR, CHITALDRUG RAILWAY LINE.

Situation and Distribution:

The manganese area examined in this locality may be broadly divided into two blocks to the north and south of the Chikjajur Chitaldrug Rail way line which runs across the area in an east west direction.

The north block examined covers an area, about 1½ miles long by 1 mile wide and may be called the Keshapur Block, being situated close to this village; while the southern block extends over an area of about 2½ miles long by 1 mile wide and may be called the Hanumankatte Block as a large portion of this area lies within the limits of this village

There are a number of old pits and excavations made by the previo licensees, scattered all over the area, more in the Keshapur Block than the southern one..

Examination.

This block extends from the southern boundary of the area already sanctioned to Mr. C. M. Treasler up to the Railway Line to the south.

The heart-shaped hill still shows manganese ores, although a good amount had already been worked and removed. On the Southern Slope a large excavation was made by us to an average depth of 12 and for 2196 c.ft. of the excavation 90 c.ft. of ore was obtained. Two more pits were made on this hill to a depth of about 4'-9" one on the south eastern slope and another on the flat top.

One face of an old excavation on the southern slope of a hill was opened out whence 936 c.ft. of material were removed, yielding 123 c.ft. of ore This ore body, consisting chiefly of pryolusite with powder and wad is mixed up with ferrugirous quartz bands and and yellowish limonitic material while in some of the greasy siliceous schists wad occurs in pockets. The average measurement of the outcrop may be taken as 150' x 20' x 30' (deep) as the ore body may extend below the present working.

I On hill just to the South of Mr. Tresslor Block, outcrop---350' x 10' x 10'--- at 8% and 18 cft to 1 ton, (including some quantities to its west)

Heart-shaped Hill (to South

(1) Top area---500' x 250' x 5' at 3.67 (and 20 c. ft. to 1 ton)

(2) Eastern Slopes:--- 1/3 of above (assumed)

(3) South Slope

(a) Top Patch--200' x 200' x 5' at 2½% and 20 c. ft. to one ton — 250

(b) To the east of this patch--(assumed)-- 100

(c) Middle east area---300' x 200' x 8' at 1.7% and 20 c ft. to 1 ton. 400

1775

(d) S. W. Patch--(from pebbly bed less 50,000 c.ft. for old excavations)

250 x 200' x 10' at 4 1 and 18 c.ft. to 1 ton 1025

III. Hill to South (working of an old area) 150' x 20' x 30' at 13.14% and at 20 c.ft. to 1 ton. 550

IV. Fort Hill

From grounds to North (including Fort area) 500' x 150' x 8'--(less 50% for old excavations at 3% and 20 c.ft. to 1 ton -450

Middle part (sloping to the Railway Line) 200' x 100' x 5' at 3% and 20 c.ft. to 1 ton. 150

Just to south of the Railway Line and between it and the garden--150' x 150' x 5' at 2% and 20 c.ft to 1 ton. 110

Grand Total 4795

or 5000 Tons (approximately)

Conclusion:

Since Mr C. M. Tresslor has already been granted a Prospecti License to the north of this block and as he has also applied for the inclusion of this block on revision of his original area. I am of opinion that if the results of analysis of the ores do not turn out to be high in manganese contents, the area may be granted to Mr Tresslor on revision of his old area, provided that he offers the same terms to Government as he has originally done.

The quantity available has been estimated to be about 5000 tons and to get this quantity very careful working and and sorting have to be done all over the area as most of the probable ore-bearing ground have been exhaustively worked out by the previous licenses, and this would very likely mean more than the ordinary expenses incurred for mining such areas

The chief advantage of the block is its close proximity to the Railway Line and this would mean less expense in transport.

Estimate:

The following estimate is made of the quantity of ore which may be obtained from this block:------

		Tons
	Tower Hill---400' x 100' x 3' at ½% and 20 c.ft. equals to 1 ton.	30
	South West Slope of the knoll towards the garden (South of the Tower) (Approximate)	100
	On the West slope of the hill further south, beyond the small tank--near old excavations (approximate)	50
	On the flat top hill and its North & South slopes where pits and trenches were made in black manganiferous soil (about ½ mile North West of .2799) 950' x 200' x 3½' ---(½% and 20 c.ft. equals to 1 ton	170
	On the west slope of the hill, just south of above (nominal)-----	30
	Further south (about ¾ furlong off) and to south of the cart track---250' x 150' x 15' (calculated from results obtained in excavation)	35
VII	Patch on the west slope of the hill between .2799 and 2706---450' x 150' x 5 at 1% and 20 c.ft. to 1 ton	170
	Grand Total	585

or 600 tons (approximately)

46709

12

M. G. D. 12]

No. 1854
Encl one

GEN. & REV. SECRETARIAT
16 MAY 1926
INDUSTRIES & COMMERCE
BRANCH.

Dated Bangalore, 15th May 1925

FROM

B. JAYARAM, ESQUIRE, F.G.S.,
Director, Mysore Geological Department.

35742

Geol 133-24-3

GENL. & REV. SECTT.
Bs
16. MAY 1926
G. D. SECTION.

K. V. Anantaraman, Esq., B.A.,
Secretary to the Government of
His Highness the Maharaja of Mysore,
Revenue Department.
B A N G A L O R E .

In continuation of this office letter No.1806, dated 8th May 1925, I have the honour to forward herewith a copy of letter dated 12th May 1925, from Mr. Sen, Senior Geologist furnishing the report of results of analysis of the 12 samples of chrome ore collected by him from the Kalangana area. In the absence of particulars and details in regard to the selection and situation of the samples and whether the ores show any comparative increase or decrease of Cr_2O_3 in depth, it is unsound to comment.

I have the honour to be,
S i r,
Your most obedient servant,

B. Jayaram

Director,
Mysore Geological Department.

B. Jayaram, Esq., F.G.S.,

Director, Mysore Geological Department,

B A N G A L O R E

S i r.

With reference to the report on the work done at the Kalangavi Chrome area which was submitted by me on the 7th instant, I have the honour to forward herewith the results of analysis of the 12 samples of Chrome ore collected from the Kalangavi area. Only two constituents have been determined in each sample at present by the Assistant Chemist, Mr. M. R. Anantanarayana Iyer, as requested by me; the remaining results of the analyses will be duly forwarded when they are completed.

Reg. No. of sample.	Cr_2O_3 %	Total Fe. %
A 2/385	26.85	15.03
A 2/386	24.80	14.42
A 2/387	28.33	13.12
A 2/388	24.86	15.37
A 2/389	29:47	12.62
A 2/390	24.68	16.25
A 2/391	24.70	15.19
A 2/392	25.15	17.02
A 2/393	28.87	15.32
A 2/394	24.95	17.47
A 2/395	23.07	18.84
A 2/396	31.31	14.05

From these results it is evident, this ore is of low grade, the highest figure obtained for Cr_2O_3 being only 31.31 %.

Under the present market conditions, such low grade ore has not got any demand; and the area at present has to be left out of consideration for any commercial purpose.

These results may be kindly forwarded to Government as appendix I to the report already submitted.

I have the honour to be,
S i r,
Your most obedient servant,
Sd.- A. M. Sen,
(Senior Geologist)

12th May, 1925.)
Camp Yandhalli.)
Mysore P. O.)

C O P Y

for DIRECTOR,
Mysore Geological Department.

WD 01225—GPB—37,500—1-9-26

General and Revenue Secretariat | File No | of 192

Serial No.

48759 14

M. G. D. 12]

5762

No. 1943. Genl. one 55

Dated Bangalore, 30th May 1925.

D 5983

GEN. & REV. SECRETARIAT
30 MAY 1925
INDUSTRIES & COMMERCE BRANCH.

Genl 133-24-4

FROM

B. JAYARAM, ESQUIRE, F.G.S.,
Director, Mysore Geological Department.

GENL. & REV. SECTT.
30 MAY 1925
G. D. SECTION.

To

K. V. Anantaraman, Esq., B.A.,
Secretary to the Government, of
His Highness the Maharaja of Mysore,
Revenue Department, BANGALORE.

Sir,

In continuation of this office letter No.1854 dated 15th May'25, I have the honour to forward herewith a copy of report on the work done by Mr. A. M. Sen, Senior Geologist, on the Uttanhalli Chrome block in the Mysore Taluk.

I have the honour to be,
S i r,
Your most obedient servant,

B. Jayaram.

Director,
Mysore Geological Department.

b.n.l.

Report on work done on the Uttanhalli Chrome Block in the Mysore Taluk.

Situation.

This block as originally held by a previous licensee covers an area of about 1.7 Sq. Miles, being 1 3/8 miles long by 1¼ miles broad; while the actual chrome bearing rocks are found in a much smaller area, about ½ mile long by ½ mil broad. As the lands all round are under cultivation it is likely that some of tnese rocks may extend beneath the soil under cultivation. The block is situated in the lands of the three villages of Uttanhalli, Yandahalli and Marshettihalli; it was worked by the licensee to some extent as old excavations and stacked materials are seen in the area.

It may be mentioned here that Yandhalli is an Inam Village and, I am told, some parts of the lands of Uttanhalli and Marshettihalli, where chrome occurs, belong to private parties.

Occurrence.

The area consists of ultra-basic rocks of the type of amphibolite which is found associated with potstone, Serpentine and massive Kankar, all these last three apparently occurring as derivatives of the amphibolite.

The chromite in this area usually occurs as disseminated grains in talcose potstoney masses or in Serpentine; the outcrops of these rocks are not many, although they are seen in many of the deeper excavations. Thin veins of chromite, having varying widths from 1/16 th inch or less to about 4 inches, have been seen in places, although they are difficult to be traced as their outcrops are few and far between. These veins, as seen in some of the excavations, do not usually run very deep; while in some cases they have

have been followed to depths of 6 7' and so on. It is difficult to make out their lateral extensions as they often get lost in soil, leaving hardly any indications of their existence underground.

In one place, from an old excavation, it was noticed that at 3'-6" below surface, a run of chrome ore 1'-6" wide occurred interbanded with serpentine and uttra-basic rocks, which rendered the sorting of the ore difficult and thus brought down the grade. Except what is seen in the old excavations, no other indication could be found on the surface of the existence of this ore-body.

In some places pebbles and fragments of chrome ore are seen scattered on the surface, indicating thereby the existence of the ore in tne locality.

Examination.

Altogether 19 excavations have been made in the form of pits and trenches. Their dimensions varied according to local conditions, length from 5 ft (minimum) to 27 ft (maximum), breadth 4 ft (minimum) to 6'-6" (maximum) and depth from 1 ft (minimum) to 7'-3" (maximum). In some of these no chrome ore was seen, while in others lenticular masses of potstone with disseminated grains of chrome were found and in some of them veins of chromite were followed to the bottom of the excavations

These excavations helped to get an idea of the width of the lenses and the veins below the ground surface and also their existence and extent for some depth underground.

Estimate.

The ores which may be obtained from this block may be classfied under the following three heads:----

(1) Pebbles---collected from the surface.

(2) Lowgrade ore, associated with potstone and uttra-basic masses.

(3) Vein ore.

From various measurements, the following estimate has been made, the details of which are not included here.

	Tons.
(1) Pebbles	25
(2) Lowgrade ore from potstone &c	7528
(3) Ores from vein and lode ...	958 .

Since the depth has been assumed to be 15 feet in the above calculation, the last two figures may be increased to 10,000 tons and 1300 tons, allowing for unknown underground occurrences which could not be ascertained at present. So in all about 11,300 tons of ore could be expected from this block if carefully worked out; and probably much larger quantity of the low grade ore would be available if the workings are extended in length and depth. This quantity however includes ores of all grades, good and bad.

Grade.

As regards the grade, the ore does not appear to be of high quality to be of any use for commercial purpose. As far as they appear in hand specimens, the pebbles and vein ores may not yield more than 40% of Cr_2O_3, while the low-grade ores would not probably exceed 25%.

Nine samples have been collected from different places for analysis; the grade of the ore would be determined on the results of the analysis.

On the whole the area does not appear to be a promising one, specially as high grade ore is not to be seen here.

This is probably the reason why the block was abandoned by the previous licensee.

28th May, 1925)
)
Camp Yandahalli)
)
Mysore Taluk.)

(Sd) A. M. Sen,
(Senior Geologist).

"Copy"

B. Jayaram

DIRECTOR,
Mysore Geological Department.

App. F. III—2].

General and Revenue Secretariat.	File No.	of 192

M. G. D. 12]

49555

Dated Bangalore, 8th *June* *1925*

No. 1979

5983

GEN. & REV. SECRETARIAT
10 JUN 1925
INDUSTRIES & COMMERCE BRANCH.

6087

GENL. & REV. SECTT. G. D. SECTION. FROM 9 JUN. 1925 To

B. JAYARAM, Esquire, F.G.S.,
Director, Mysore Geological Department.

Geol 133-24-5

K. V. Anantaraman, Esq., B.A.,
Secretary to the Government of
His Highness the Maharaja of Mysore,
Revenue Department, BANGALORE.

Sir,

In continuation of this office letter to you No.1943 dated 30th May 1925, I have the honour to forward herewith a copy of report on the work done by Mr. B.N.Vemkataramaiya Assistant Geologist, during ~~on the work done by him in~~ the fortnight ending 31st May 1925.

I have the honour to be,
S i r,
Your most obedient servant,

B. Jayaram

Director,
Mysore Geological Department.

b.n.l.

Dated, Camp Ballenhalli,
Chiknayakanhalli, P.O.
(Tumkur District.)
2nd June 1925.

To

The Director,
Mysore Geological Department,
BANGALORE.

Sir,

Letter No.I.C.7280/Geol.133-24-1, dated Bangalore 29th April 1925, from the Secretary to Government forwarded to me with your No.1844, dated 14th May 1925.

In compliance with the above I have the honour to submit the following brief report on the work done by me for the fortnight ending 31st May 1925.

The manganese area which is free and has been taken up for examination is confined to hills lying to above north-east, east and south-east of the Honnibagi village; and is about 7 Sq. miles in extant. There are a number of spots here which have been formerly worked for manganese ore under Prospecting Licenses 51 and 542 by the Peninsular Minerals Company.

For the purpose of the present examination, some test-work in actual mining was carried out in fine places and samples collected for analysis. In addition to this, with a view to ascertain the probable quality and quantity of ore contents in different places, eight trenches and pits have been put in and the work is in progress. The results obtained so far have not revealed anything if much importance or advantage. In about a week's time I may be able to get through this work and send up a net of samples of ore from this area to the Laboratory for analysis, the results of which will determine the grade of marketable ore that can be raised in any quantity. A detailed report will

will be submitted on completion of the work.

I beg to remain,
S i r,
Your most obedient and humble serv

(Sd.) B. N. Venkataramaiya

Assistant Geologist.

(Copy.)

B. Foote Dacre

Director,
Mysore Geological Department.

G.R.S. III—3]

Routine Notes. 21

[To be used only for notes, requisitions, etc., not intended for permanent record.]

M. G. D. 12] 50807 Dated Bangalore, 18th June 1925.

No. 2037
Encl. one

6087

GEN. & REV. SECRETARIAT
18 JUN 1925
INDUSTRIES & COMMERCE BRANCH.

FROM

B. JAYARAM, ESQUIRE, F.G.S.,
Director, Mysore Geological Department.

Pearl 133-24-6

GENL. & REVT. SECTT. BR. 18 JUN 1925 G. SIR. SECTION.

To

K. V. Anantaraman, Esq., B.A.,
Secretary to the Government of
His Highness the Maharaja of Mysore
Revenue Department, BANGALORE.

In continuation of this office letter No.1979 of the 8th instant I have the honour to forward herewith a copy of the report on work done by Mr. A.M. Sen, Senior Geologist on the two chrome blocks at Solepur and Ayirhalli.

I have the honour to be,
S i r,
Your most obedient servant,

B. Jayaram

Director,
Mysore Geological Department.

Report on work done on the two Chrome Blocks at
Solepur and Ayirhalli, in the Mysore District.

-c-

The Solepur Block in the Mysore Taluk has been known to prospectors for some years and it has changed hands many a time. The main portion of the Block in the middle is now held by the Tata Iron and Steel Company, Limited, under a Mining Lease granted to them for magnesite and chromite. To the west of this Mining Lease area is a Block applied for by Mr. C. B. Desai and it will be referred to here as the Solepur Block; and to the east of the Mining Lease area is a Block applied for by Mr. T. C. Butler and it will be mentioned in this report as the Ayirhalli Block.

The Solepur Block.

Situation:-

This block as applied for covers an area, $1\frac{7}{8}$ miles long by $1\frac{1}{2}$ miles broad, round about the village of Solepur in the Mysore Taluk most of the area is covered by soil and is under cultivation.

Examination and Results:-

On the eastern side adjoining the Tata's Mining Lease area and at the South East corner of the block on the South bank of the Hebya Holla are small patches of Dunite rock, in which are occasionally seen some stringers and thin bands of magnesite and small runs of amphibolites. No chrome ore was seen anywhere within the area applied for, in the form of loose pebbles and fragments or in reefs or veins, although all probable places were carefully examined.

At the western border of the area, from near Kyatanhalli to rise ⊙ 2348, there are some dark ultrabasic rocks, amphibolites pyroxenites; and no trace of chrome could be found in that locality.

It is not known why this area with such a large extent had been applied for chrome, unless it had been only for its proximity to

to the Tata's Mining Block.

The Ayirhalli Block.

Situation:-

This block, applied for by Mr. T. C. Butler, covers an area, 2 miles long by 1/8 mile broad and lies to the south west of the village of Ayirhalli. A large portion of the area is under cultivation.

Examination and Results:-

Gneiss is the principal rock of the area, on the western side, near the middle, adjoining the Tata's Mining Lease area is a Dunite outcrop, where no indication of any chrome either in the form of loose pebbles or fragments or in veins and lenses was found. Very rarely a piece of low grade chrome pebble might be picked up in some places, but this did not provide sufficient indication to warrant any examination by excavations.

Stringers and thin lenses of magnesite may be seen here and there and small rims of amphibolite may also be noticed in some places. In these latter rocks some small pits are seen, made by the previous licensees, but no chrome could be noticed in them. Kankar occurs in fairly good amount.

Near the South-east boundary line which runs across the Southern slope of the hill 2605, there are some amphibolite outcrops which also occur along the eastern boundary line near the south-east corner of the block. No chrome was noticed in this part.

An area outside P. L. & M. L. Blocks.

Situation:-

This small area, measuring about 500 ft. X 300 ft, lies just to the north of the Tata's Mining Lease Block, near its north east corner and it is very likely outside the Ayirhalli Block.

Occurrence:-

Some lowgrade chrome ore was seen in an old excavation in this area made by a previous licensee. This chrome ore occurs in association with an amphibolite (altered to pot stone in places) in the midst of gneiss in a number of small veins and stringers, the total width of which would not exceed one foot; the veins run about N.N.E. to 35 East of N, with a dip of about 45 W Some loose fragments and pebbles of chrome ore were found scattered over the area.

Examination:-

To the north and south of the old pit, 8 trenches were made of different sizes and depths, length varying from 15' to 25 breadth from 4' to 5½' and depth from 3½ to 10½ to find out the extent of these ore bodies. Only in one trench some low grade ore was found, while other trenches did not show any chrome ore.

Estimate:-

If carefully worked out, this area may not yield more than 150 tons of ore, with an assumed depth of 20ft.

Grade:-

The ore appears to be of low grade, probably yielding not more than 35% of Cr_2O_3. Two samples have been collected for analysis.

The Solepur Mining Block of the Tata's.

This Block, though it is not a free area, is referred to here for some interesting points observed therein. In some of the excavations for magnesite, thin veins of chrome ore may be seen but they do not seem to have been worked out by the Company. Near a trial shaft, the depth of which I am told is about 25 feet, in a small heap some good pieces of chrome ore were found which would probably yield 48 to 50% Cr_2O_3. These pieces appear to have been taken out of the shaft, which is now filled up; and no indication is exposed of the reef or vein from which these good chrome pieces were obtained. Two samples of different varieties have been collec

ted from this -

this heap for analysis.

In this Mining Lease block, which consists of Dunite with occasional runs of amphibolite and pyroxenite, indications of chrome ore on the surface are not many; small fragments of chrome ore may be found in places after careful search, while thin stringers of chromite may be seen occasionally. Kankary material occurs all over the area in fairly good amount.

The Arakanhalli Dunite area.

To the east and south east of Arakanhalli, an outcrop of Dunite extends for over a mile in an approximately S. S. W. direction, apparently in continuation of the Dunite outcrop of the Solepur Mining Lease Block. Here also no chrome was seen in any form, while stringers and small lenses of magnesite could be noticed occasionally as well as Kankary materials here and there; runs of amphibolite occur in the midst of dunite in places as usually seen in other areas.

-o-

As indicated by the trial shaft in the Tata's Mining Lease Block, deep prospecting may probably reveal the presence of good chrome ore in some of the dunite areas, although nothing can be said definitely about it owing to the absence of good evidence on the surface.

-o-

14th June, 1925,
Camp Kadakolar

Sd. A. M. Sen,
(Senior Geologist)

B. Fagan

DIRECTOR,
Mysore Geological Department

App. F. III—2]

General and Revenue Secretariat. | File No. | of 192

Serial No.

M. G. D. 12]

Encl. 133-M-7 26

No. 156 Encl. one report. Dated Bangalore, 15th July 1925.6

REV. SECTT. D 311

FROM

B. JAYARAM, ESQUIRE, F.G.S.,
Director, Mysore Geological Department.

To

WQ 157

K. V. Anantaraman, Esq., B.A.,
Secretary to the Government, of
His Highness the Maharaja of Mysore,
Revenue Department, BANGALORE.

SIR,

In continuation of this office letter No.2037 of the 18th ultimo I have the honour to forward herewith a copy of the report on work done by Mr. B. N. Venkataramaiya, Assistant Geologist on the manganese blocks in Chikanayakanhalli Taluk.

I have the honour to be,
S i r,
Your most obedient servant,

B. Jayaram.
Director,
Mysore Geological Department.

B.N.L.

Note on the examination of the Manganese Blocks near Honnebagi in the Chiknaikanhalli Taluk, Tumkur District.

Situation and Distribution:-

The area examined is confined to the hilly tract of country lying about 3½ miles (4½ miles) east and south east of the town of Chiknayakanhalli. It is approximately 3⅞ miles long by 2 miles wide. The southern portions may be taken to be, by road and cart-track, about 11 miles distant and the northern portions about 14 miles distant from Banasandra, which is the nearest railway station. Almost the whole of the area is covered with scrub jungle and the eastern half is a State Forest. In former years prospecting and mining operations have been conducted under Prospecting Licenses 51 and 542, as witnessed by the numerous excavations scattered over all the manganese bearing patches, particularly along the western slopes of the hills.

For the purpose of the present note the area has been divided into two blocks - the northern and the southern blocks, assuming the dividing line to pass through the hill-point, 3544 on the topo map.

Occurrence.-

The manganese ores occur, as usual, in segregated patches lenses, bands or lines, associated with quartz ferruginous beds in the midst of highly altered schist members. Some times the ore is well concentrated, which renders it easy of extraction and dressed into lump material; whereas in most cases, the ore breaks up into fragments and powder on dressing. The ore-body sometimes passes off into waddy and black earthy material.

The ore also occurs as loose lumps, fragments and pebbly material imbedded in gravally or black manganiferous soils, mixed up with similar ferruginous and lateritic bodies may be the result of the breaking up and disintegration of the original ore-bodies

that

that may have existed in those localities. In this area, the distribution of the ore lumps or fragments was observed to be very thin and occasional in places, and the condition extending to only short depths.

On the top of the hills in places, the ore was observed to occur associated with lateritic materials as lateritic replacement deposits.

The chief varieties of manganese ores found in this area, are pyrolusite and some peroxide, and psilomalane. Waddy material is also found occasionally.

I The Northern Block.

A portion about half a square mile in extent in the N.W. corner of the original block has now been included in the area sanctioned to Mr. S.S. Setlur. Excluding this, the remaining portion may be taken to be about 3½ square miles in extent. The manganese bearing patches are mostly confined to the western half of the block; and there are some big excavations in this area.

Examination.

(1) "Belavatta Manti".- This lies about a mile and a half 10° S of E of the village of Gollarhalli in the topo maps, and adjoins the area granted to Mr.S.S. Setlur. There are three big pits. One of the sides of the pit which is about 70 yards from the nullah course south, and in which a band of ore associated with yellow limonitic material and fine powdered silica, is exposed, was cut down. For an excavation of 594 Cft. an outturn of 20 Cft. of well dressed high grade ore and 19 Cft. of silicious low grade ore, were obtained. Between this pit and another one north of it a trench and a cut into the side wall and in continuation of it were made, which yielded 9 Cft. of silicious low grade ore for 340 Cft. of excavation. Four more trial trenches have been put in with varying results.

(2) About two furlongs S. of the above there is a working locally known as Bavata Gani (Flag Mine.). The ore band seems to have been completely removed to a depth of about 15 ft. and the sides now reveal only ferruginous material and fine silica powder with occasional thin stringers of ore. About 100 yards S. of this pit there are burrowings for the collection of float ore. A pit was put in at this place. For an excavation of 598 Cft there was an yield of 7½ Cft.of ore. A trench was put in about a furlong N.E. of the big pit, which revealed nothing of importance

(3) Akkidibba.- This is the next patch, situated about 2 furlongs 20° E of S of the above. There are three pits in almost a line, on the slope of the hill, bearing 10° N. of E of the village of Honnebagi, which had been worked for ore in former years. Test work was carried out in the two pits lying at the ends. In the south pit, the sides and bottom of which show stringers and thin bands of ore, for an excavation of 525 Cft. by deepening the pit, an out turn of 40 Cft of well dressed ore was obtained. In the north pit in which there is only one band of ore exposed, for an excavation of 756 Cft. an out turn of 12 Cft of dressed ore was obtained.

(4) On the same slope of the hill 350 yards 15° E of S. of the above pits, there is a patch of ground strewn with lateritic boulders, some of which happen to consist of partly or wholly of manganese ore. Similar material and sometimes lumps of good ore are found embedded in soil to an average depth of 5 ft. For an excavation of 351 Cft. an out turn of 7 Cft. of dressed ore was obtained.

Estimate.

The estimates have been based on a careful consideration of the nature of occurrence of manganese ores, combined with field observation in this area and the results of actual test work recently carried out. The probable quantities of ore that may be available from the several manganiferous patches comprised in this

block

block are set forth below.-

	Total Quantity of ore in Tons.
(1) On Belavatta Manti -	
(a) Central band - 150' x 50' x 50' @ 4% and 18 Cft. to a ton.....	833
(b) The rest of the patch - app. 600' x 250' x 30 less the contents of the above @ ½ % and 18 Cft. to a ton.....	1187
(c) The Bouldery patch to the east. app. 200' x 100' x 20' @ 1 % and as above.....	277
(2) On the 'Flag Mine' patch including the float ore bed app.900' x 200' x 20' ½ % and 18 Cft. to a ton.....	1000
(3) 'Akkidibba area:-	
(a) Round the main pits on the hill slope app.300' x 100' x 30' @ 2% and as above.....	1000
(b) Long patch N.W. and W. of the above including float ore bed at the north end.- app.800' x 100' x 10' @ ½% and as above.....	222
(c) 'Donikola' - This is a small patch north of (a) above. Some work has been done here and a quantity of ore removed. The available quantity may be estimated at a L.S. of 100 tons.....	100
(4) Bouldery patch 15° E of S. of (a) above. app.400' x 150' x 5' @ 1 % and as above.....	166
(5) 'Mulekola' area This lies about a mile 20° N of E. of the 'Belavatta Manti' workings, on the eastern slope of the hill range, close to the lateritic cap on the top. In former years two cuts and some trial pits have been put in and a quantity of ore collected and stacked closely The locality being inaccessible to carts no ore seems to have been removed. The quantity availablefrom this area inclusive of	

of the old stock of ore, may be estimated roughly as 500 tons..... 500

Grand Total Tons.5285

or in round figures 5300 tons.

Grade of ore.

So far as can be judged from the look of ~~the~~ samples of ore from this block, the majority of out turn appears to comprise low grade ores ranging in analysis from 35 % to 44 %. of Mn. Nine samples, as per particulars in list appended to this note, have been collected from excavation &c.; and they have been sent to the Laboratory for analysis. The grading of ores is only possible after the receipt of the results of analysis of these samples from the Laboratory.

Conclusion.-

During the manganese boom of 1906 and for a few years afterwards, the area has been prospected for ores on a fairly large scale. Since that time, it does not seem to have attracted the attention of the mining public; and has remained a free area as can be made out from the records in office. Up to the end of the year 1915, a quantity of 883 tons of ore had been exported from this block and a quantity of about 250 tons of ore which was lying on the property unremoved, was recently disposed of by sale to the public. Major portion of this quantity has since been removed and exported.

No systematic work seems to have been carried out in those days and most of the excavations are in a very unsatisfactory conditions. To obtain the estimated quantity of ore careful and improved methods of work may have to be adopted, and every bit of manganiferous ground systematically worked out. This may mean extra cost and the consequent lowering of miner's profits.

II The Southern Block:-

This comprises the remaining portion of the area now examined; and is about 2 miles long by 2 miles wide or 4 Sq. miles in extent. The manganese bearing spots are few and far between. Except at one place, locally known as 'Thadethagudda' in the western half of this block, where some prospecting and regular mining work seems to have been attempted, the operations carried on by the licensees in the remaining portions of this area, appear to be more of an exploratory nature, as can be seen from the presence of a few trial pits and trenches put in here and there.

Examination:-

(1) Two miles east of the village of Ballenhalli there is a gap in the range of hills. On the top and sides of one of the spurs, situated about half a mile south west of this gap there are some workings made by the old licensees. While examining the area round about, chunks of good-looking manganese ore were found in the bed of a branch nulla close to the above workings a pit and two trenches were put in, but the conditions revealed were far from being satisfactory. For an excavation of 534 c. ft. about 3 c.ft. of mixed ore was obtained.

(2) About a mile south of the above place and about 4 furlongs west of hill peak 3301, there are some old manganese pits and a quantity of low grade ore has been collected in stacks and heaps close to one of the old pits. a new pit was started with no ~~hither~~ better results than those obtained from the old pits. For an excavation of 281 c.ft. about 4 c.ft. of low grade ore was obtained About a furlong ~~No~~ W of the above a trench 19' x 3½' x 3' was cut which yielded only a small quantity of ore.

(3) Thadethagudda - There are a number of pits made by the licensees in former years, scattered on the top and on the southern and south-eastern slopes of this hill. The manganese ores are found associated with ferruginous bodies, mostly limonitic One of the sides in each of the two big pits on the south slope

were

were cut down and ore collected in a stack. For an excavation of 790 c.ft. 10½ c.ft. of dressed ore was obtained.

(4) About 2 furlongs north west of the Katte (small tank) at the top of the ghat, through which the bridal path runs, on the scarp slope of the hill, two cuts were put in, in ground similar to that in the first patch referred to above. The result was not satisfactory as only a small quantity of ore was obtained for 421 c.ft. of excavation in both the cuts.

Estimate:-

On a careful consideration of the conditions prevailing in this block, and also assuming that the several patches of manganese bearing ground comprised in it are completely worked out, it is likely that the following quantities of ore may be expected from this area.

		Total tons.
1.	Patch of ground south west of the gap in hills a lump sum quantity of 100 tons	100
2.	Patch about 1 mile S of the above -- do --	100
3.	Thadethagudda - 800'x 150'x 15' app. @ ½% and 18 Cft. to the ton.	500
4.	Long strip of ground on the scarp slopes of the temple hill - Lump sum -	100
5.	Bouldery patch at the edge of the lateritic cap on the top of the above hill about 3 furlongs S.S.E of the temple.	200
	Grand total	1000 tons

Grade.

Four samples of ore have been collected from this block; three samples are from the cuts &c. newly made and one from the stock lying at the old quarry. These may be assumed as representative of the ores that may be expected from this area; and they appear to be all low grade material probably not containing more than 44 % of Mn. The samples have been sent to the Laboratory for analysis and the results will fix up their respective quality when grading would be easy.

Conclusion.

Considering the poor quality as also the very limited quantity of ore that may be expected from this block, the transport difficulties and costly working charges &c. owing to the very hilly nature of the major portion of the block, the area does not appear to be worth much when viewed from speculative and mining stand point.

Dated Bangalore,
3rd July 1925.

Sd. B. M. Venkataramaiya,
Assistant Geologist.

Copy.

for Director,
Mysore Geological Department.

List of samples of manganese ore from the Honnebagi area sent to the Laboratory for analysis.

Sl.No.	Registered No.	Description, locality &c.
		I <u>The Northern Block</u>.
1	X/793	Well dressed high grade ore obtained from cutting down one of the sides of the big pit about 70 yds. from the nullah course south, on 'Belavatta Manti
2	X/794	Silicious low grade ore from the same excavation at the above place.
3	X/795	Somewhat soft and friable low grade silicious ore from the trench and cut put in a little north of the above on the same band.
4.	X/796	Average sample of float-ore from excavation south of the 'Flag-Mine
5.	X/797	Ore from the 'Flag Mine south of Belavatta Manti.
6.	X/798	Ore from the excavation at the bottom of the south pit, below 15 ft. from surface at 'Akkidibba'.
7.	X/799	Ore from cutting down the sides of the north pit at 'Akkidibba'
8.	X/800	Ore from excavation in the bouldery patch 350 yds. 15° E of S. of the big pits at 'Akkidibba'
9.	X/801	Average sample of ore from stacks lying at Mulekola' workings.
		II <u>Southern Block</u>.
1.	X/802	Ore from excavations in the patch ½ mile S.W. of the gap ~~and~~ in hills east of Ballenhalli.
2.	X/803	Low grade ore from excavation ~~and~~ in workings on Thadethagudda.
3.	X/804	Low grade ore from cuts on the slope of the hills, about 2 furlongs N.W. of the small tank or katte, close to the patch at the top of the ghat.
	X/805	Average sample of low grade ore from stock lying at the quarry at the edge of the lateritic cap about 3 furlongs S.S.E. of the temple on the top of the hill.

App.F.VI G1.]

SUBJECT.....

Section

File No. 1133/24

Serial No.

Diary No. of letter replied to .....

No. 9.7 dt 6.5.25

General and Revenue Secretariat

the *192*

To The Dir of Geology

Date of issue 7/7/25

Sir

Signed by Ven. VV.

Referring to the fortnightly report submitted by you of work done by Messrs Ari Sen and Venkata ramayya, in the examination of select blocks of manganese & chrome, I am directed to invite your attention to Paras 2 and 3. of the G.O. No. 3.C. 5063-4/[illegible] d. 27th Jan[illegible]-25 deputing the officers mentioned above for this work and to enquire as to what blocks have been so selected for Examinati

List of enclosures.....

I am to request you to submit a full report on the above point, together with your opinion as to how the arrangem

Copied by .....

Examined by.....

3) 5
sanctioned by Govt for the participation
by them the profits of the licensees
(in addition to royalty) in respect of
manganese & chrome blocks, has been working
during the last one year ever since its
introduction. I am to enquire whether you
consider that the above policy may be continued
for some time longer, or whether the policy
needs a change.

The matter should be treated as
urgent and the report submitted before
the ~~end of this month~~

I have etc

WD
15/7 to Rlse. P.S.

M. G. D. 12]

No. C/156-2

Dated Bangalore, 10th August 1925

From

B. JAYARAM, Esquire, F.G.S.,
Director, Mysore Geological Department

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REV. SECTION
To
10. AUG. 1925
G. D. SECTION.

To

K. V. Anantaraman, Esquire, B.A.,
Secretary to the Government of His Highness
the Maharaja of Mysore,
Revenue Department.

(3)-24-8

Sir,

With reference to your letter No.665/Geol.133-24-8, dated 31st July 1925, I have the honour to submit the following report, as desired by the Government.

2. The report called for seeks information on three main points, namely ,

1. What manganese and chrome blocks were selected for the examination of Messrs. Sen and Venkataramaiya.

2. My "opinion as to how the arrangement sanctioned by Government, for the participation by them, in the profits of the licensees (in addition to royalty) in respect of manganese and chrome blocks, has been working during the last one year, ever since its introduction"

3. Whether I consider that the above policy may be continued for some time longer or whether the policy needs a change.

3. The above points are hereunder dealt with in their serial order :-

1. The selection of manganese and chrome blocks was decided upon after much careful consideration and consultation with Messrs. Sen and Venkataramaiya.

Though Government in their Order No.I.C.5063-4/Geol.

Geol.87-22-23, dated 27th January 1925, desired me to select six manganese and six chrome blocks, including Byrapur-Hullainhalli block for examination to start with, yet it was not possible to do more than four chrome and four manganese blocks within the time that was at the disposal of the investigating officers.

5. The selection of Blocks was made with due consideration to their importance and handy situation to the main roads and railway stations. The blocks, so selected, were

Manganese blocks :-

1. Keshapur block in Chitaldrug District
2. Hanumankatte " " "
3. Honnebagi North " Tumkur District.
4. " South " " "

Chrome Blocks :-

1. Kalangavi near Hosdurga Railway Station
2. Uttanhalli Block in Mysore Taluk.
3. Solepur " " "
4. Ayirhalli " " "

(Byrapur-Hullainhalli chrome block was omitted for several sound reasons, which I took the opportunity of personally explaining to the First Member, Mr.K.R. Srinivasa Iyengar, when he inspected the above block, as well as Bhaktarhalli and Jambur blocks.

6. The Member, after having carefully examined the exten and nature of operations on the above blocks, was fully convinced on the futility of either the Department or the Government spending ~~on~~ time and money in attempting merely to find out the probable quantities and qualities of ore on these blocks).

7. The detailed reports of work done on the above eight blocks by Messrs. Sen and Venkataramaiya have been duly submitted by me to Government and I have no useful comments to offer on the results obtained, except that they do not appear to me of much valu either from academic or economic points of view. By this I do

not

not wish to suggest that the work of the officers concerned has been unsatisfactory but that they were put on an investigation the nature of which, I thought, would yield no useful results for the amount of time, energy and money expended on it.

8. 2. With regard to this point, I must say that the work of the licensees under the present new arrangement for the last one year has, so far, shown returns of no promising character, as can be judged from the reports that I have submitted for the quarters ending March and June 1925.

9. Mr. Schomburg is the only licensee who has done some work under the New Rules, but he has not yet sent us the sale proceeds of the ore he sold to Tata's Iron & Steel Company.

3. In my opinion, the policy certainly needs a change. The matter requires careful consideration and discussion before a satisfactory change can be effected. Until then the present arrangement may stand.

I have the honour to be,
Sir,
Your most obedient servant,

B. Rangarao

Director,
Mysore Geological Department.

C.N.